	Application No.	Applicant(s)	
Madia a & Allanot With	10/045,927	BERG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Nasser G. Moazzami	2187	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this apply) or other appropriate communication RIGHTS. This application is subject to 3 and MPEP 1308.	plication. If not includ will be mailed in due withdrawal from issu	ed course. THIS re at the initiative
1. This communication is responsive to <u>02/28/2005 and intelland</u>	rview with applicant's representative o	on 04/20/2005 and 04	<u>/22/2005.</u> .
2. The allowed claim(s) is/are <u>1-9</u> .			
3. The drawings filed on <u>09 January 2002</u> are accepted by the	ne Examiner.		
4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Paper No./Mail Date 1. Identifying indicla such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in a 7. DEPOSIT OF and/or INFORMATION about the deporattached Examiner's comment regarding REQUIREMENT	e been received. e been received in Application No comments have been received in this formal of this communication to file a reply MENT of this application. Initted. Note the attached EXAMINER' res reason(s) why the oath or declarate st be submitted. son's Patent Drawing Review (PTO- C's Amendment / Comment or in the Comment or in the Comment of the drawing the header according to 37 CFR 1.121(comment of BIOLOGICAL MATERIAL notes)	national stage applicational stage applicational stage application of the front (not the fig.)	quirements IOTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material NASSER MOAZZAMI PRIMARY EXAMINER	Paper No./Mail Dat	(PTO-413), e <u>attached</u> nent/Comment	ŕ
U.S. Paterlyand Tradémark Office PTOL-37 (Rev. 1-04)	otice of Allowability	Part of Paper No./N	1ail Date 20050425

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael A. Dryja (Reg. No. 39,662) on 04/20/2005 and 04/22/2005.

The application has been amended as follows:

In the claims

1. (Currently amended) A method for maintaining cache coherence in a multiprocessor system having a plurality of nodes, each node having at least one cache, a memory device local to the node, and at least one processor device, the method comprising:

storing information regarding the state of data exclusively in an interconnect communicatively connecting said nodes with one another, such that the interconnect is a sole repository of cache coherence information within the multiprocessor system;

checking said stored information to determine the location of the most current copy of a requested portion of data, in response to a request by a requesting node for

the requested portion of data;

retrieving said current copy of requested portion of data and directing said data to the requesting node;

checking said stored information to determine the location of the requested data <u>portion</u>; and

simultaneous to the retrieval of said current copy of the requested portion of data directing the system to send said requested data portion to the requesting node without going through said interconnect.

2. (Currently amended) A multiprocessor computer system comprising:

a plurality of nodes, each node including at least one processor and portion of a shared distributed system memory coupled to said processor; and

an interconnect both communicatively connecting said nodes with one another and exclusively storing locations of the most current copies and state information of data stored in the memory of the nodes such that the interconnect is a sole repository of cache coherence information within the multiprocessor computer system[.], said interconnect simultaneously provides requests to first and second nodes, wherein the results of the request from the second node is communicated to the first node without going through said interconnect.

8. (Currently amended) A method for maintaining cache coherence in a multiprocessor system having a plurality of nodes, each node having at least one cache, a memory device local to the node and at least one processor device.

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the memory and processor device being coupled to form a complete subsystem, the method comprising:

storing information regarding the state of data exclusively in a first part of an interconnect communicatively connecting said nodes with one another, such that the interconnect is a sole repository of cache coherence information within the multiprocessor system;

said first part checking said stored information to determine the location of the most current copy of a requested portion of data, in response to a request by a requesting node for data;

said first part directing a second part of the interconnect to forward the said most current copy of said data to the requesting node; and

said second part retrieving said current copy of requested portion of data and <u>simultaneously</u> directing said data to a target node <u>without going</u> through said interconnect.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nasser G. Moazzami whose telephone number is (571) 272-4195. The examiner can normally be reached on 7:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NASSER MOAZZAMI PRIMARY EXAMINER

04/25/2005